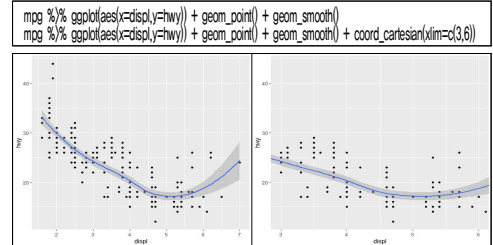


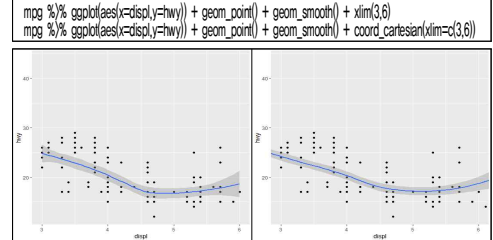
coord_cartesian()의 활용 : XY축 범위의 조정



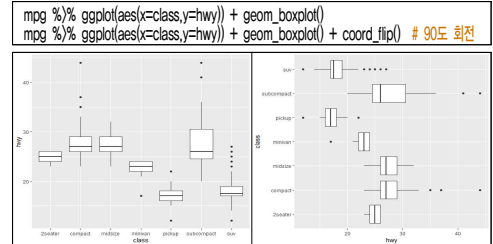
scale에 의한 XY축 범위의 조정

- scale 함수의 일반적인 형태 : scale_*1*_2*(
- *1* : 수정하고자 하는 시각적 요소 (color, x, y, fill 등등)
- *2* : 적용되는 scale 지칭 (discrete, continuous 등등)
- ex. 연속형 X변수의 범위 (3,6)으로 수정 : scale_x_continuous(limits=c(3,6))
- ex. 연속형 X축의 라벨 변경 : scale_x_continuous(name= "Engine")

XY축 조정 비교



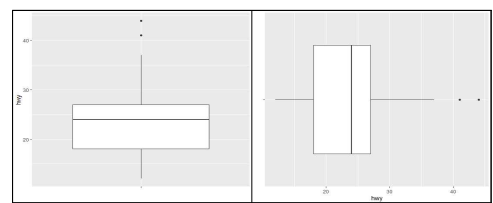
함수 coord_flip()의 활용 : 평행한 상자그림 작성



한 변수의 상자그림 작성

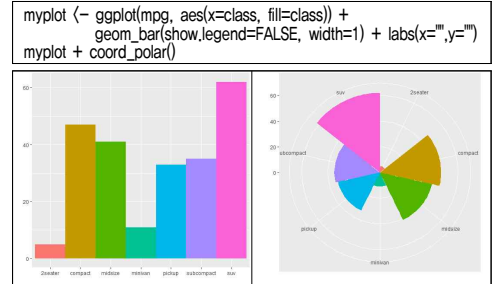
- 일반적으로 geom_boxplot()에는 x와 y모두 필요, x에는 하나의 값을 지정

```
mpg %>% ggplot(aes(x="",y=hwy)) + geom_boxplot() + xlab("")
mpg %>% ggplot(aes(x="",y=hwy)) + geom_boxplot() + xlab("") + coord_flip()
```

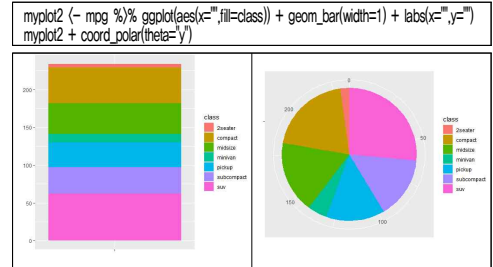


coord_polar()의 활용 : Coxcomb 그래프

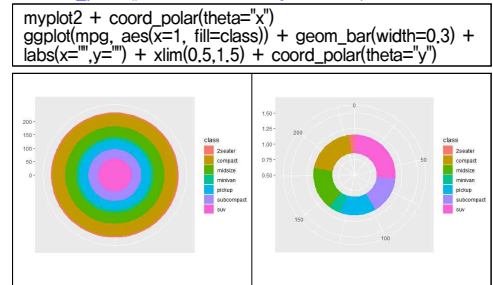
- 각 조각의 각도 : theta= "x" 로 지정 -> 동일한 각도
- 각 조각의 반지름 : 각 막대의 높이에 비례



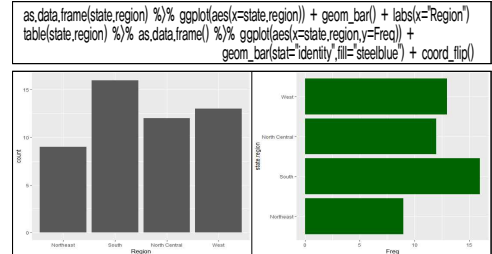
coord_polar()의 활용 : Pie 그래프



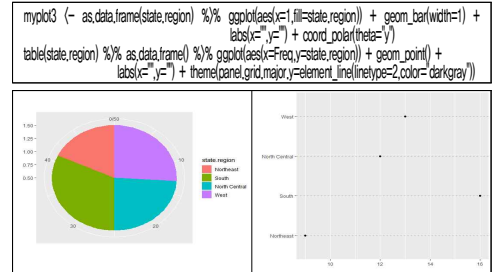
coord_polar()의 활용 : Bullseye 그래프, 도넛 그래프



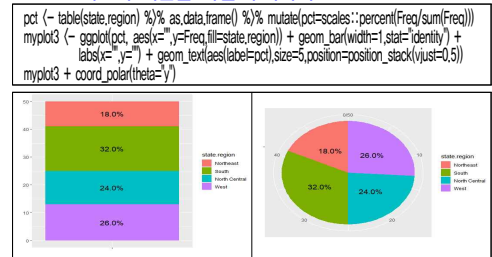
막대그래프



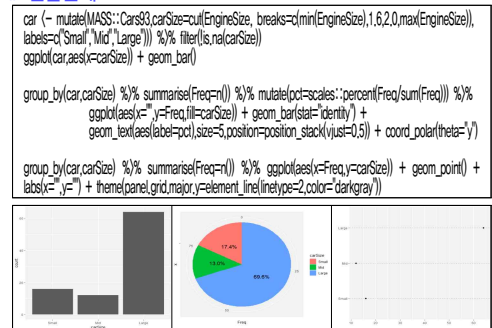
Pie 그래프 & Cleveland 점 그래프



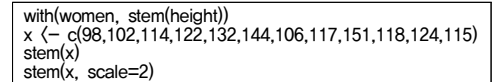
Pie 그래프에 백분율 라벨 추가하기



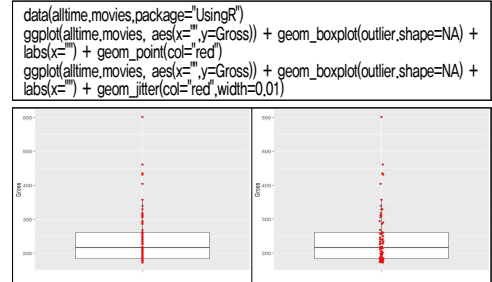
연습문제



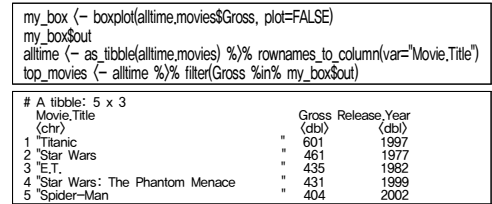
줄가-임 그래프



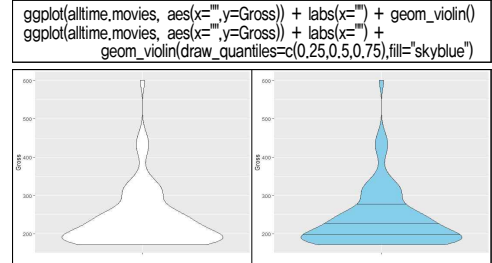
상자그림의 옵션



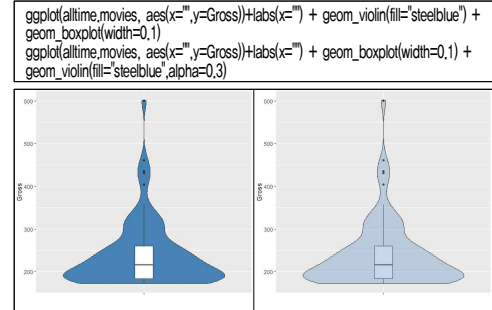
이상값으로 표시된 자료 확인



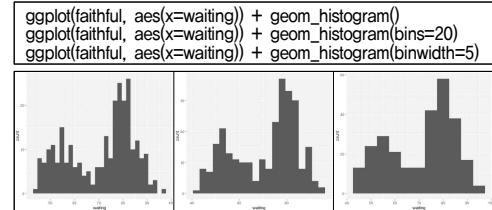
Violin plot



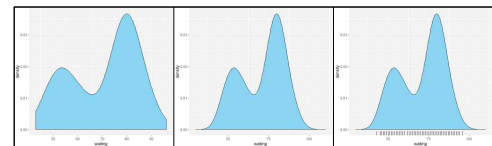
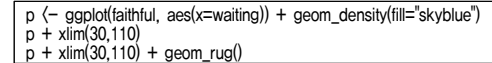
Violin plot 가 boxplot을 함께 작성



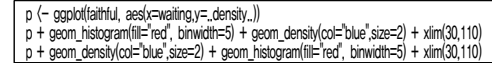
히스토그램



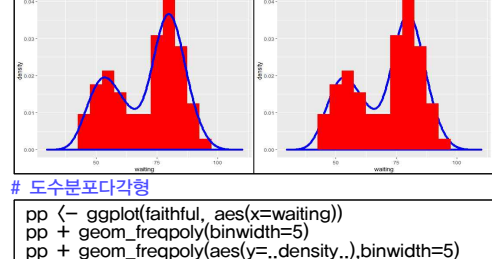
확률밀도함수



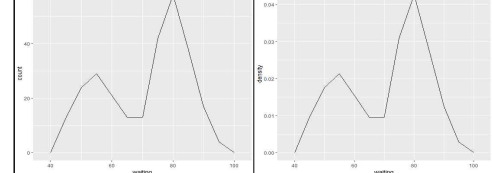
확률밀도함수와 히스토그램



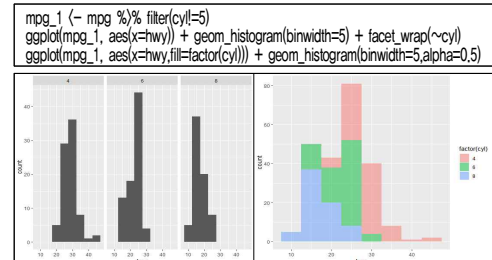
도수분포다각형



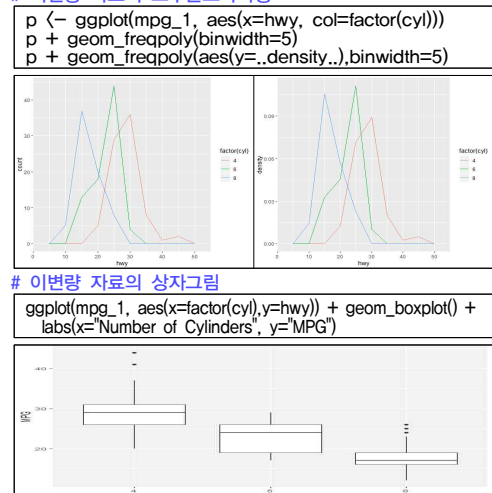
이변량 자료의 히스토그램



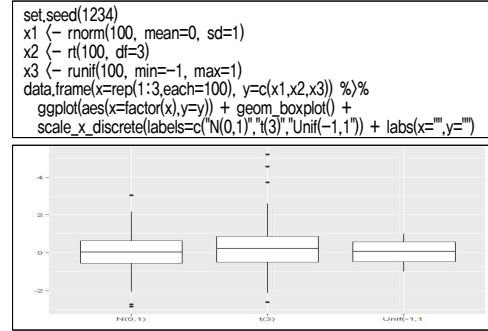
이변량 자료의 도수분포다각형



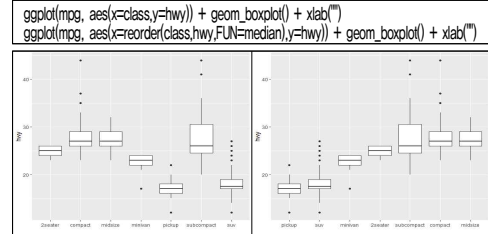
이변량 자료의 상자그림



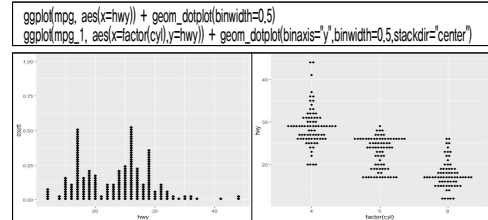
상자그림에 의한 그룹 자료의 분포 비교



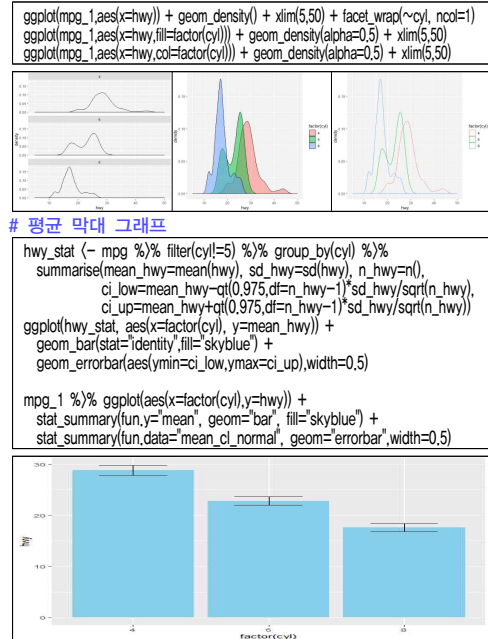
상자그림 배치 순서 조정



다중 점 그래프



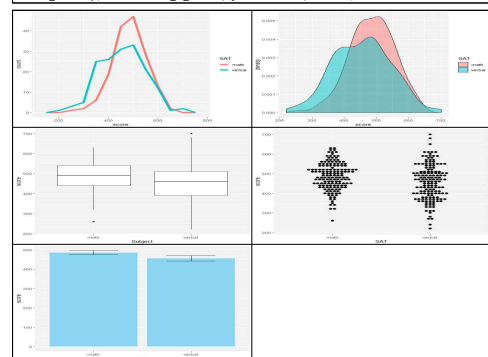
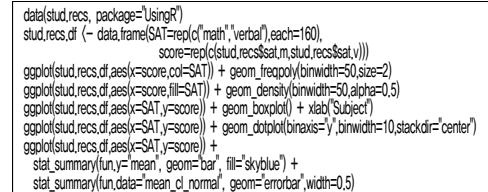
확률밀도함수에 의한 그룹 자료의 분포 비교



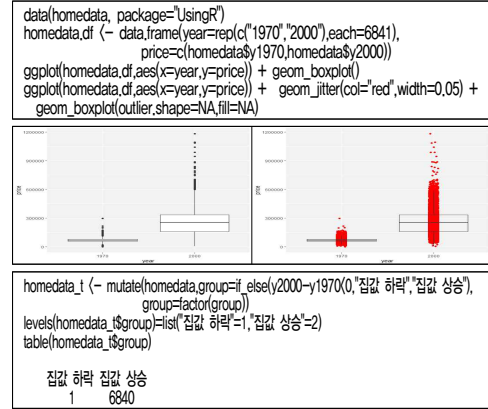
신뢰구간 계산하기



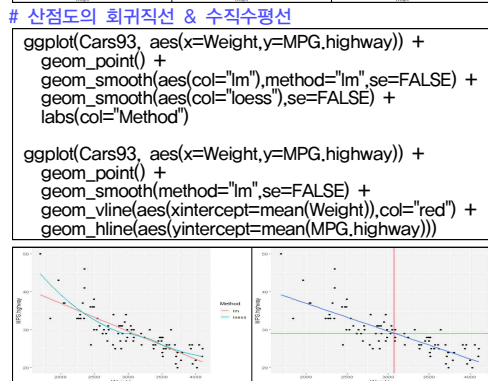
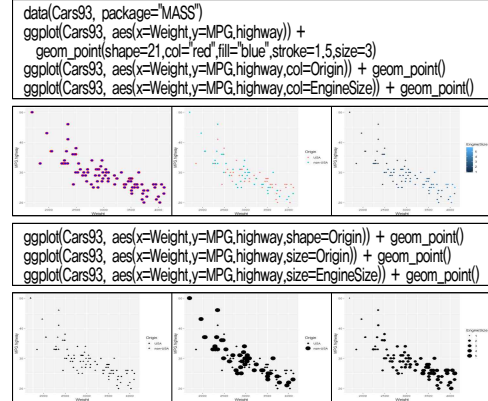
13장 연습문제 3번



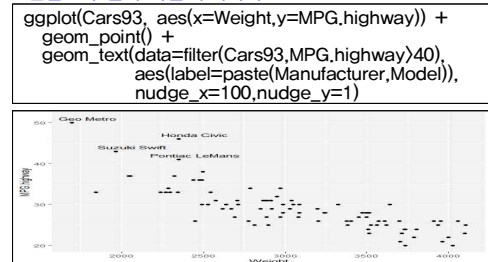
13장 연습문제 4번



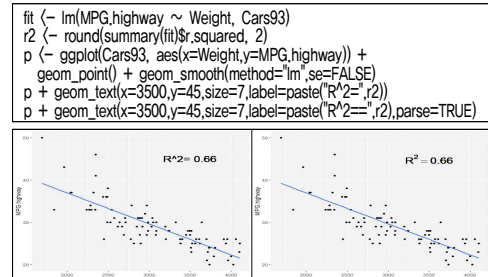
산점도



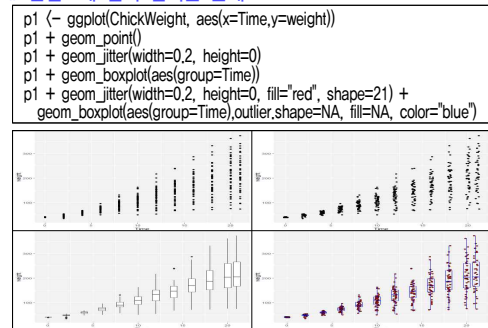
산점도의 점에 라벨 추가하기



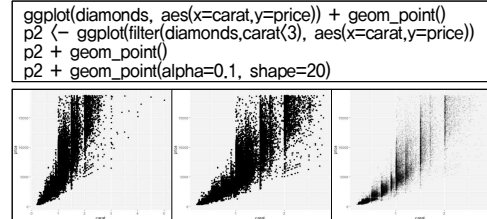
산점도에 주석 추가하기



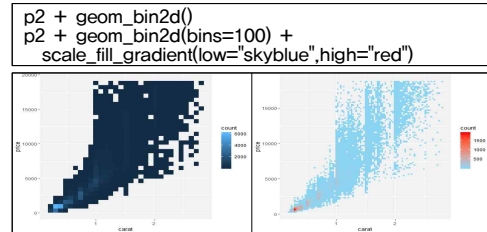
산점도에 점이 겹치는 문제



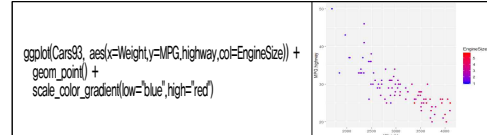
대규모 자료의 산점도



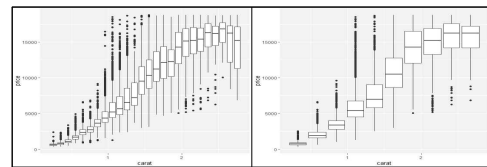
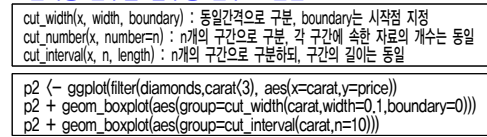
2차원 히스토그램



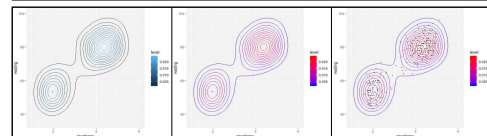
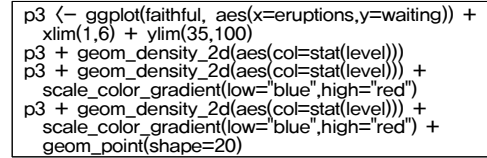
scale_*_gradient의 적용



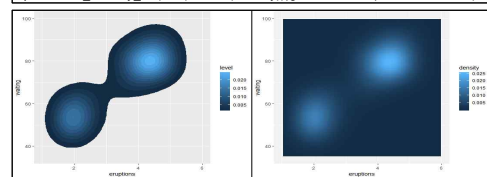
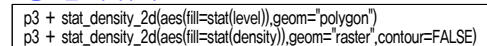
연속형 변수를 범주형 변수로 변환



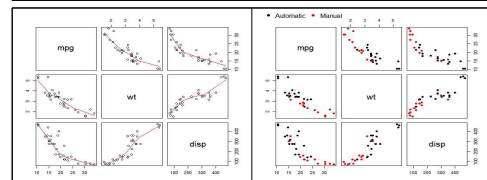
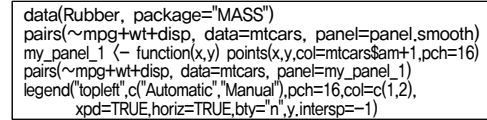
2차원 결합확률밀도 그래프



등고선 색채유기



산점도 행렬



ggpairs에 의한 산점도 행렬

